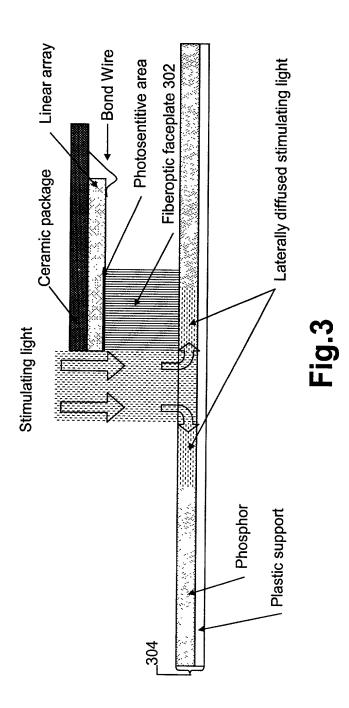
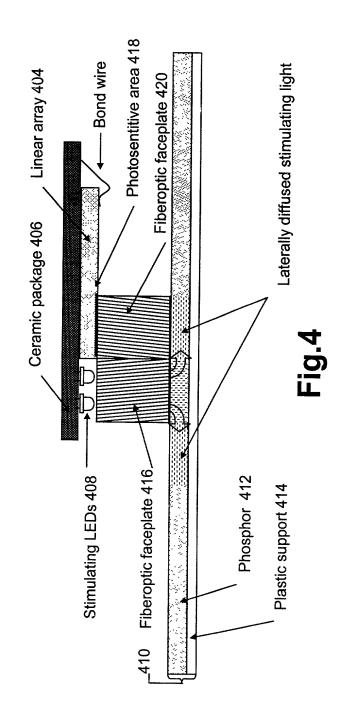
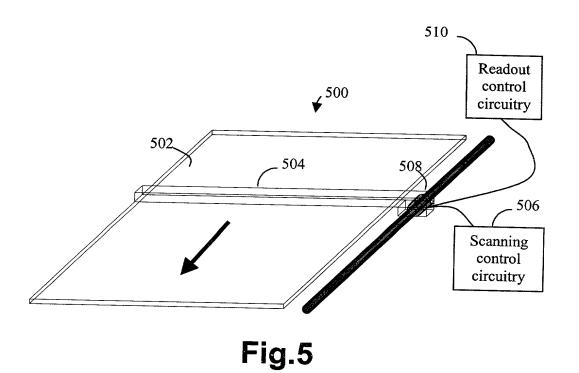


Fig.2

L







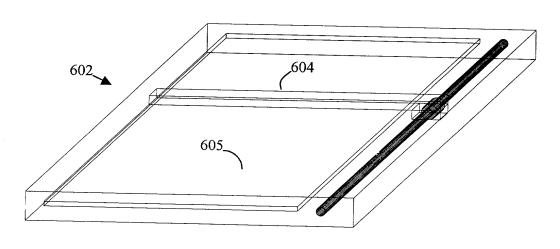


Fig.6

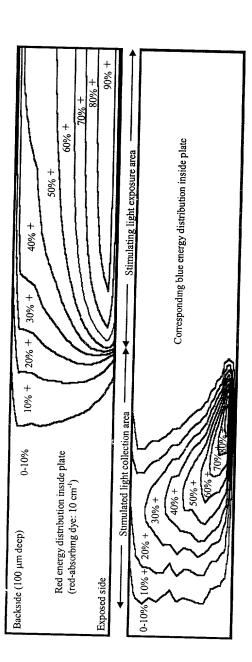


Fig. 7a

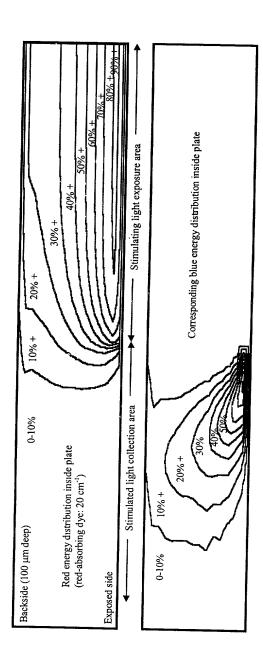


Fig. 7b

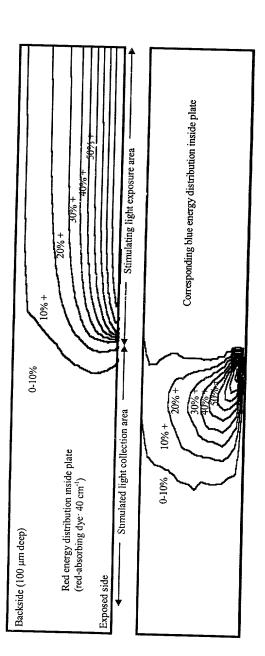


Fig. 7c

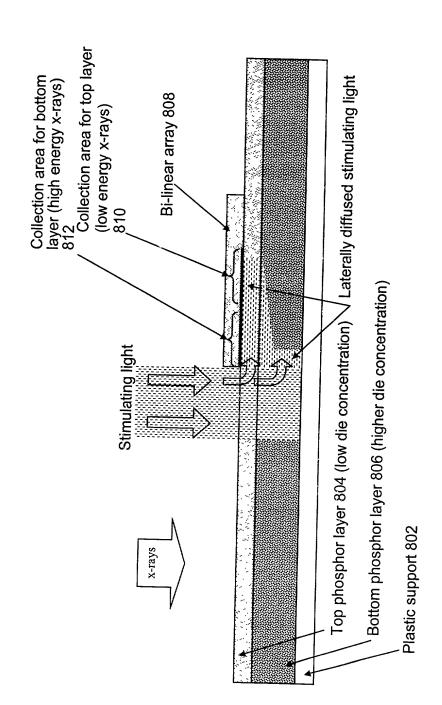
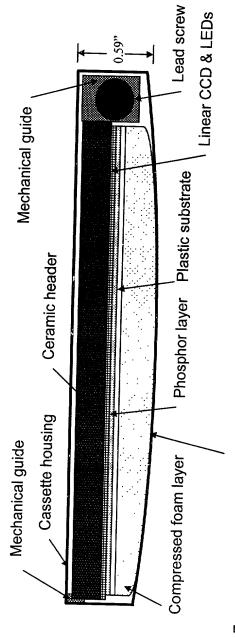


Fig. 8



Exaggerated flexing of cassette housing (due to foam compression)

Fig. 9

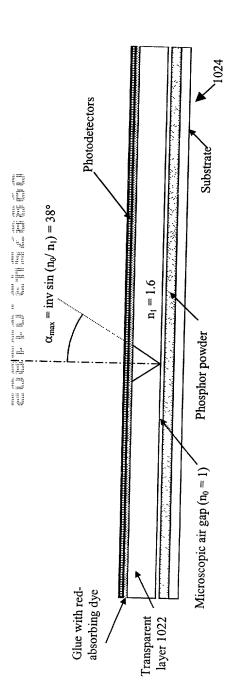


Fig.10 A

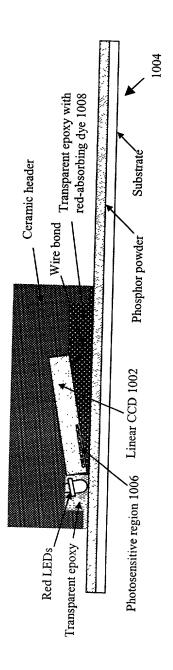


Fig. 10 B

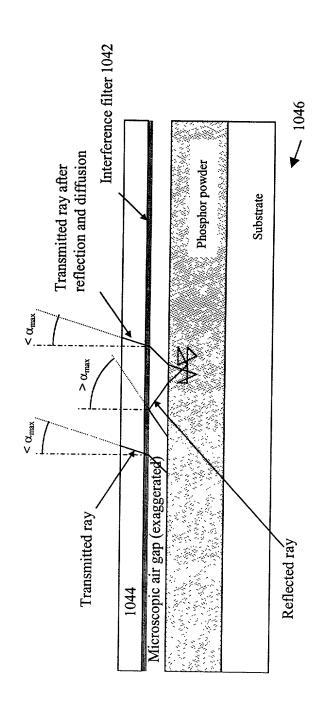


Fig.10 C

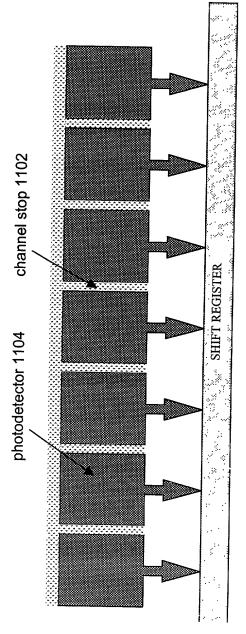


Fig. 11A Prior art

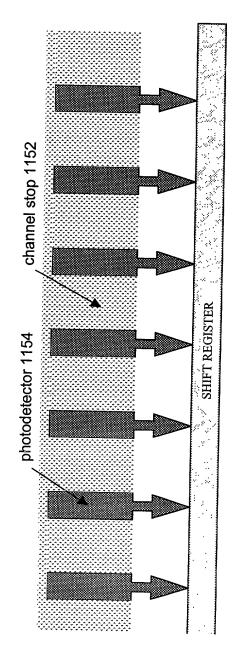
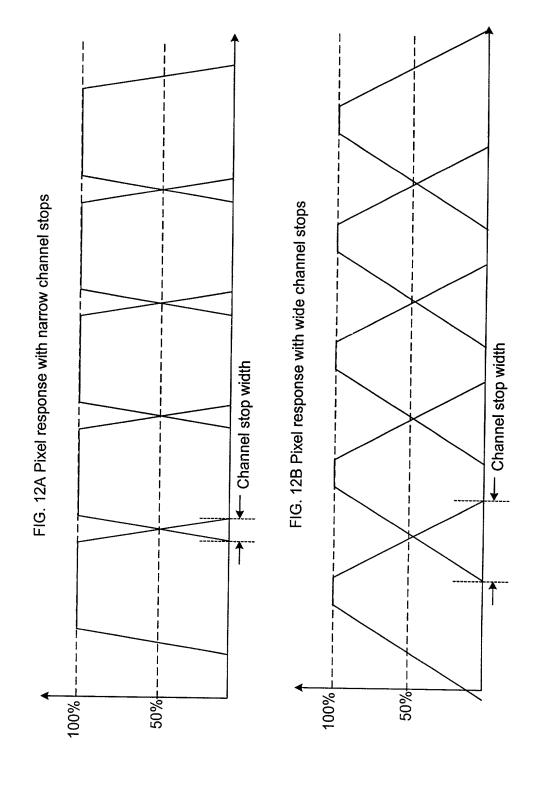
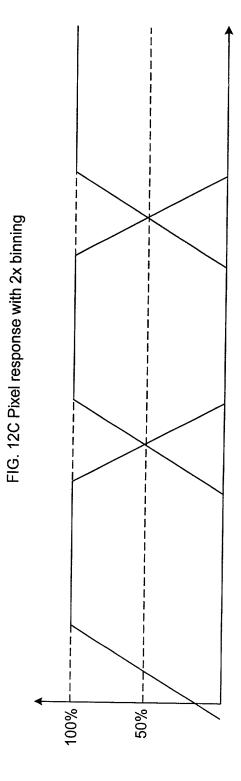
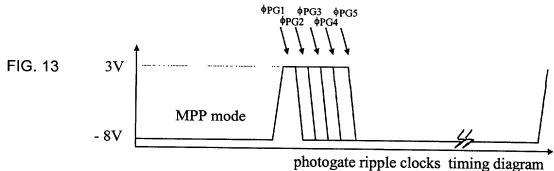
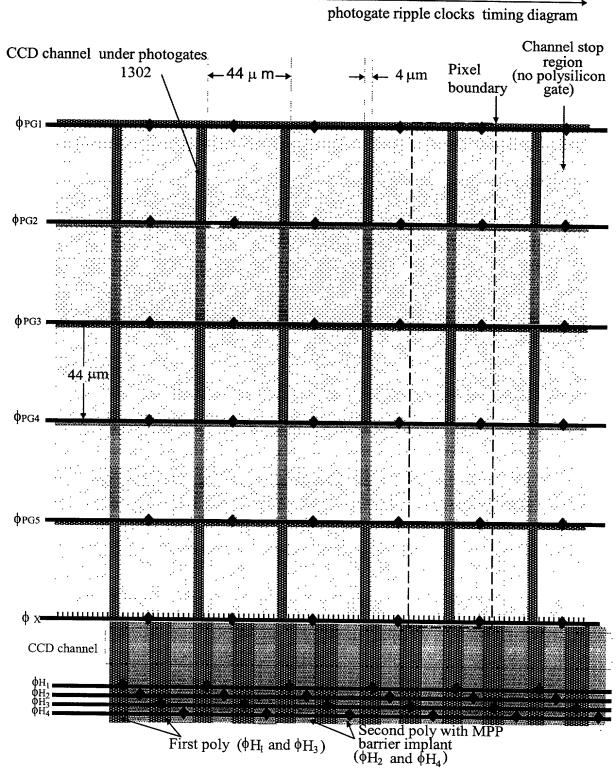


Fig. 11B design









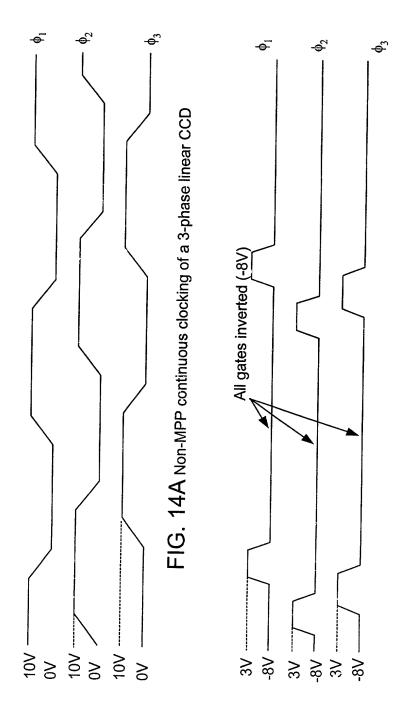
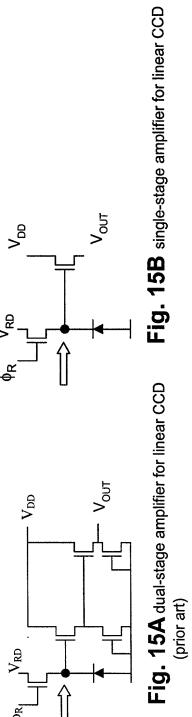
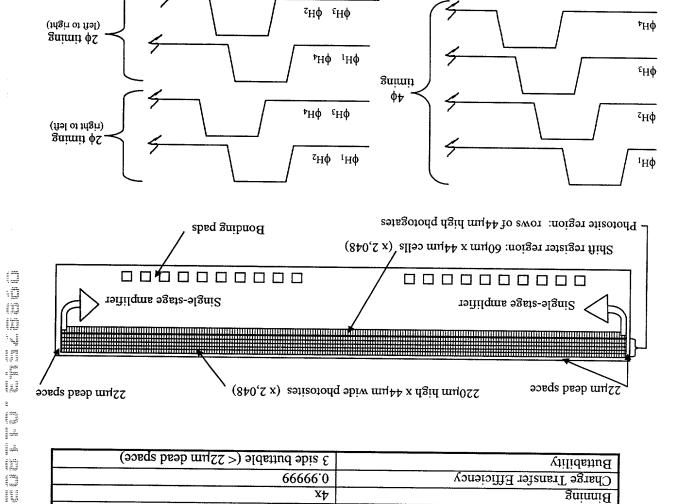
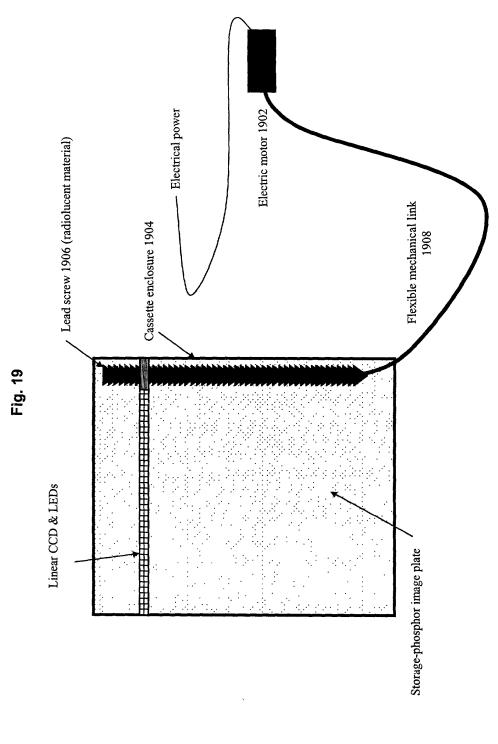


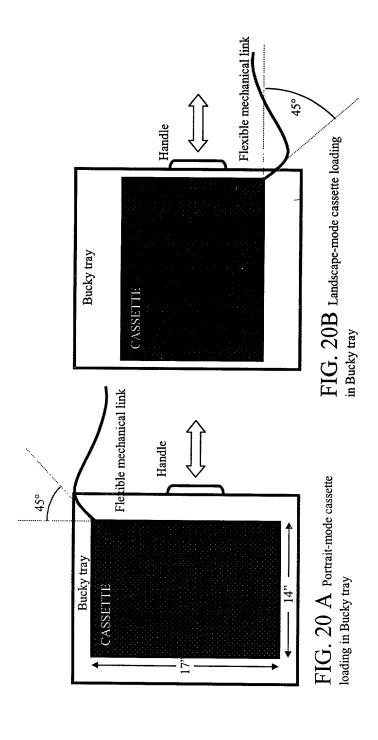
FIG. 14B MMP burst clocking of a 3-phase linear CCD

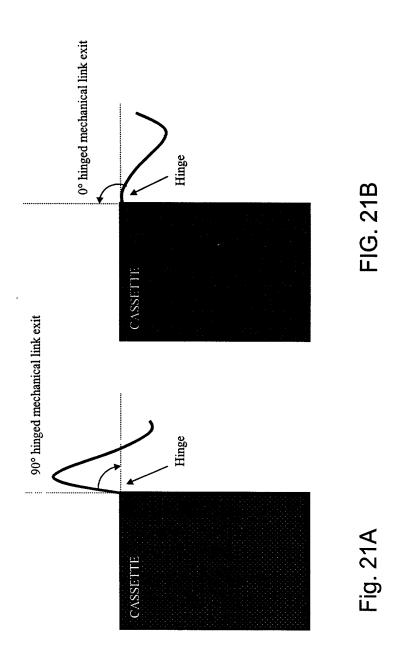


3 side buttable (< 22µm dead space)	Carronne
	Buttability
66666.0	Charge Transfer Efficiency
Χħ	gninnid
200 KHz	Maximum readout speed
% 08 <	Open photogate fill factor (no poly coverage)
> 75% at 400nm (94% QE x 80% FF)	Effective Quantum Efficiency (AR coated)
> 50% at 400nm (63% QE x 80% FF)	Effective Quantum Efficiency (uncoated)
I or 2 outputs in split mode (opposite ends)	Output configuration
5 e at 250 kHz (single-stage amplifier)	Amplifier readout noise
10 _e e.	Well Capacity
Soe at 1000 e signal level	Photogate charge transfer inefficiency (lag)
25e ⁻ /cell for 2ms integration at 40°C	Shift register dark current (MPP mode)
$< 20 \text{ pA/cm}^2$ MPP mode at 25°C	Total dark current
mm 22.2 x mm 1.09	Die size
2048 pixels	Pixel count
Uni or bidirectional 2\phi or 4\phi (MPP mode)	Shift register operation
2poly/2φ or 4φ switchable (with center split)	Shift register design
hotiq mu 44 ano mu 44 x mu 00	Shift register cell dimension
5 photogates/pixel (44 mm high x 4 mm wide)	Photosite design
220 mm high x 44 mm wide (44 mm pitch)	Photosite dimension
Linescan (photosites & single register)	CCD architecture
Supply state of the second of	









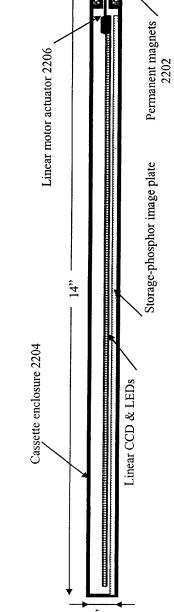


Fig. 22

Fig. 23

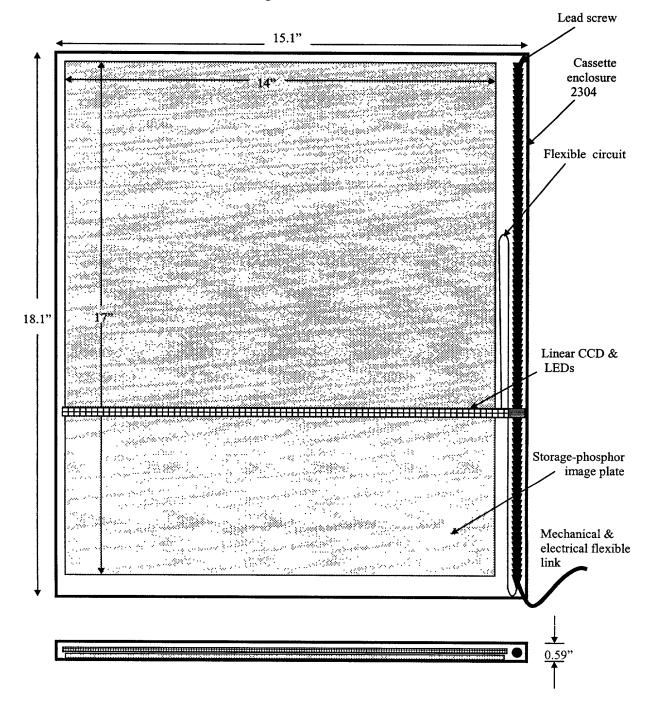
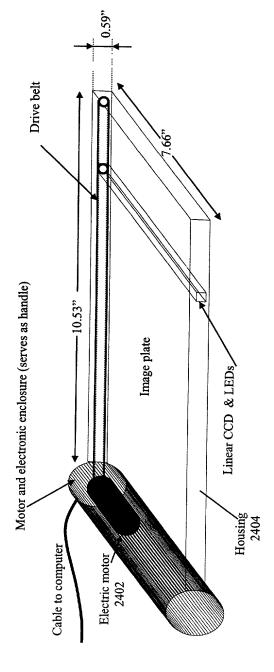


Fig. 24



Mammography cassette enclosure (fits in standard 18cm \times 24 cm bucky)